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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,502	10/0	02/2000	Yoshio Hashibe	0694-134	4484
7:	90	12/08/2005		EXAMINER	
Bradley N. Ruben PC				SERGENT, RABON A	
463 First St. Suite 5A				ART UNIT	PAPER NUMBER
Hoboken, NJ	07030			1711	

DATE MAILED: 12/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	·		FD .
	Application No.	Applicant(s)	
	09/677,502	HASHIBE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Rabon Sergent	1711	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a rep n. eriod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ATION. lly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>6</u>	95 October 2005.		
	This action is non-final.	•	
3) Since this application is in condition for allo	owance except for formal matte	rs, prosecution as to the merits is	
closed in accordance with the practice und	ler Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1,2,4,6 and 8-12</u> is/are pending ir	the application		
4a) Of the above claim(s) is/are with		•	
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1,2,4,6 and 8-12</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		•
Application Papers			
9) The specification is objected to by the Exar	niner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) □ objected to b	y the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co.	,	· · ·	
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119		•	
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
 Certified copies of the priority document 	nents have been received.		
2. Certified copies of the priority docum			
3. Copies of the certified copies of the	•	eceived in this National Stage	
application from the International Bu		and: und	
* See the attached detailed Office action for a	list of the certified copies not re	eceivea.	
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	•		
Attachment(s)	🗖		
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948	4) Interview Su Paper No(s)	mmary (PTO-413) Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	′ —	ormal Patent Application (PTO-152) -	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 09/677,502

Art Unit: 1711

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 5, 2005 has been entered.

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- Claims 11 and 12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Support has not been provided for claiming that the film has an average reflectance of "about 15% for visible light" (claims 11 and 12). The specification only provides support for reflectance values for visible light of 15% or less (page 3) and 12% and 19% (Table 1). Since "about 15%" encompasses values that exceed 15%, the language encompasses values that are not supported by the specification. Data set forth within examples provides support only for values that correspond to the data. Therefore, the position is maintained that there is no evidence that applicants were in possession of values that exceed 15% at the time of invention, other than the experimental value of 19%.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1, 2, 4, 6, and 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Friedman et al. ('704) in view of Hentzelt et al. ('668) and further in view of Terneu et al. ('687), Plumat et al. ('978), Arfsten et al. ('578), Benson et al. ('154), and Stephens ('426).

Friedman et al. disclose the production of fire screening protective glazing laminates, wherein a layer of polymeric material, that corresponds to that of applicants, is sandwiched between layers of fireproof glass plates. Friedman et al. further disclose that the glass plates may be surface treated with materials that yield heat reflectance. See abstract; column 2, lines 30+; and column 6, lines 18-29, especially column 6, line 26.

5. Friedman et al. are silent with respect to the limitations of instant claim 8 and the surface treatments that may be applied to the glass; however, the use of double glazing, additional glass plating attached through an air layer, and infrared reflecting materials, such as metal doped oxides, were known to be useful for such specific applications as transparent fire-screening panels. This position is supported by the teachings of Hentzelt et al. See abstract; figures 2 and 3; and column 3, lines 5-47, especially lines 38-47, within Hentzelt et al. Furthermore, Terneu et al. also disclose the use of double glazing to enhance insulation characteristics of glass panels.

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within Stephens.

See figures and column 6, line 11. Additionally, Terneu et al., Plumat et al., Arfsten et al.,
Benson et al., and Stephens serve to reinforce the teaching within Hentzelt et al. that doped metal
oxides were well-known infrared reflecting glazing materials for glass at the time of invention.
See abstract within Terneu et al. See column 4, lines 17-40 within Plumat et al. See abstract
within Arfsten et al. See column 2, lines 45-60 within Benson et al. See column 3, lines 43-60

6. Therefore, the position is taken that one of ordinary skill in the art would have been motivated by the teachings of the secondary references, especially the teachings of Hentzelt et al., to modify the fire-screening laminates of the primary reference by employing the claimed doped metal oxides as a heat reflecting surface treatment (glazing), in accordance with the teachings of the primary reference, and by further employing such proven insulation techniques as double glazing and the use of an air barrier, so as to maximize the heat reflectance and fire protection characteristics of the resulting fire-screening glass laminates. The position is ultimately taken that applicants have simply employed well-known materials and techniques in accordance with the teachings of the relied-upon references, so as to arrive at the instant invention.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.

R. Sergent December 5, 2005